Earth Science

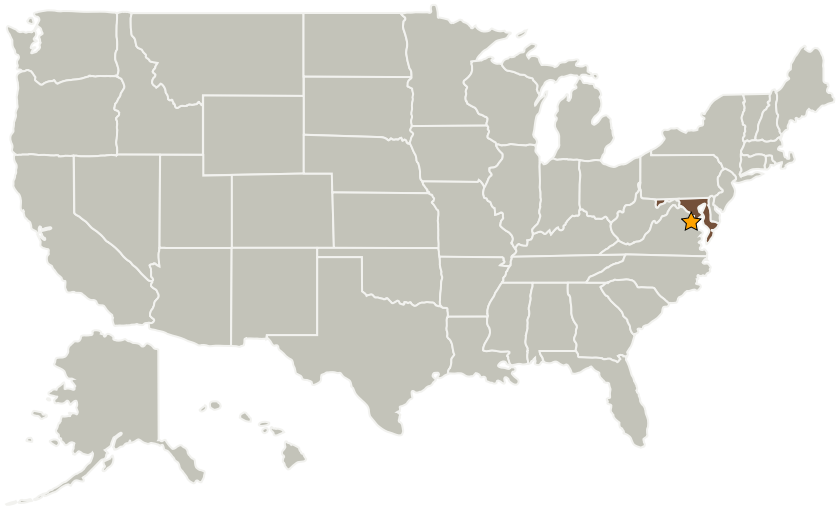
GEOSS Architecture for Remote Sensing Products for Disaster Management and Risk Assessment

Completed Technology Project (2011 - 2014)

Project Introduction

Define and facilitate implementation of a 'system of systems' architecture for disaster mitigation and risk assessment responsive to GEOSS task DI-06-09 on Use of Satellites for Risk Management
Leverage technology in service oriented architectures including sensor webs, web services and automation (e.g. EO-1 SensorWeb and VMOC)
Coordinate with international (e.g. CEOS/WGISS, IC) and national (e.g. USGEO, USGS, NOAA) partners
Prototype key capabilities enabled by the GEOSS architecture to validate and document user and web service interfaces
Demonstrate architecture benefits: reduce latency, produce more useful products on-demand, and reduce costs by reuse

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia

Project Image GEOSS Architecture for Remote Sensing Products for Disaster Management and Risk Assessment

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Primary U.S. Work Locations

Maryland

Images

GEOSS: Global Earth Observing System of Systems Architecture Components

11862-1360335413639.jpg
Project Image GEOSS Architecture for Remote Sensing Products for Disaster Management and Risk Assessment
(https://techport.nasa.gov/image/1632)

Organizational Responsibility

Responsible Mission Directorate:
Science Mission Directorate (SMD)

Lead Center / Facility:
NASA Headquarters (HQ)

Responsible Program:
Earth Science

Project Management

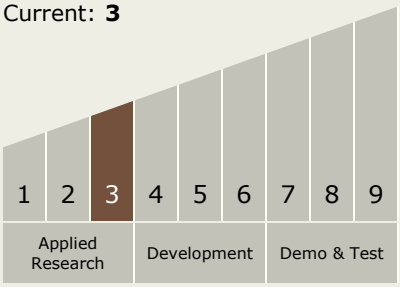
Program Director:
George J Komar

Project Manager:
Michael S Seablom

Principal Investigator:
Daniel J Mandl

Technology Maturity (TRL)

Start: **3**
Current: **3**



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Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  - TX11.4 Information Processing
    - TX11.4.1 Science, Engineering, and Mission Data Lifecycle

Target Destination

Earth